

78 - Act 878 STATINTL

March 24, 1961

Jack - Check w/ DRC
first. JRC

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[REDACTED]
P. O. Box 1407
Main Post Office
Washington 13, D. C.

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Attention: [REDACTED]

Dear John:

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I am enclosing the latest report on the development of the 2:1 Reduction Lens. This was written by [REDACTED] [REDACTED] one of our Optical Engineers, who is currently working on the lens development.

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Since the time this report was completed, the design has been corrected to the point where we feel that only a minor touch-up will be required. In fact, it may be good enough right now to put into production.

We are making a thorough analysis which will let us know whether further work is required. In the meantime, we are sending the glass requirements to the various optical companies all over the world in order to get price information on their willingness to bid the job.

As you can see from the design report, we started out with a considerably simpler design concept than the one which we

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Attention: [redacted]

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finally used. The present system contains 14 pieces of glass with a total blank weight of approximately 1,300 pounds. Obviously, we cannot purchase this glass for the estimated cost in the original breakdown which was

[redacted] We are hopeful that the glass costs will not exceed the entire contract price.

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You and [redacted] have indicated that you do not wish us to lose money and although we cannot submit a revised cost to you at this time, I thought I would give you a little advance notice that our costs will be considerably higher than those in the estimate. As soon as we have final glass quotation, we will let you know how we stand on the entire contract.

The lens design at this point looks extremely good and we are perfectly confident of its capabilities of meeting the resolution requirements. The only problem from here on is one of manufacturing the system to the design performance. In achieving design performance, glass homogeneity will be the one variable which we cannot control except through specifications to our vendors. Perhaps, you have some contact with the glass companies which could help us to impress upon them the need for the utmost in quality on these large pieces of glass.

We are looking forward to your visit and expect to have a complete story on where we stand by that time.

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Very truly yours,

GKT:cs
Encls.

[redacted]
Chief Engineer